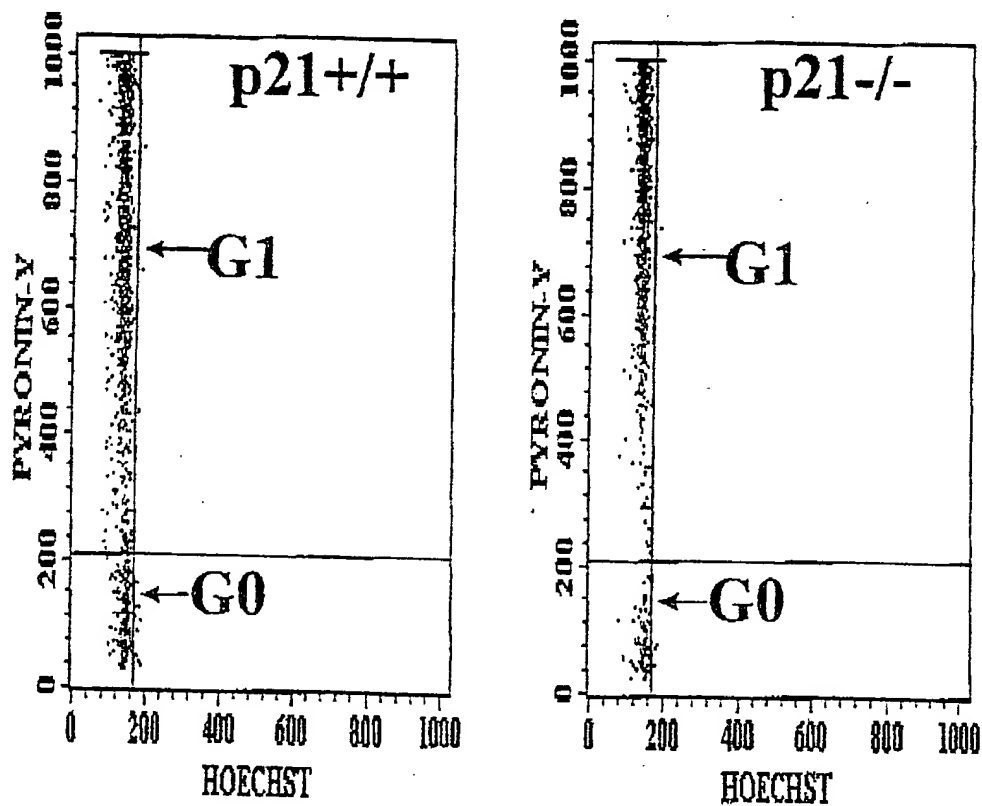


a



b

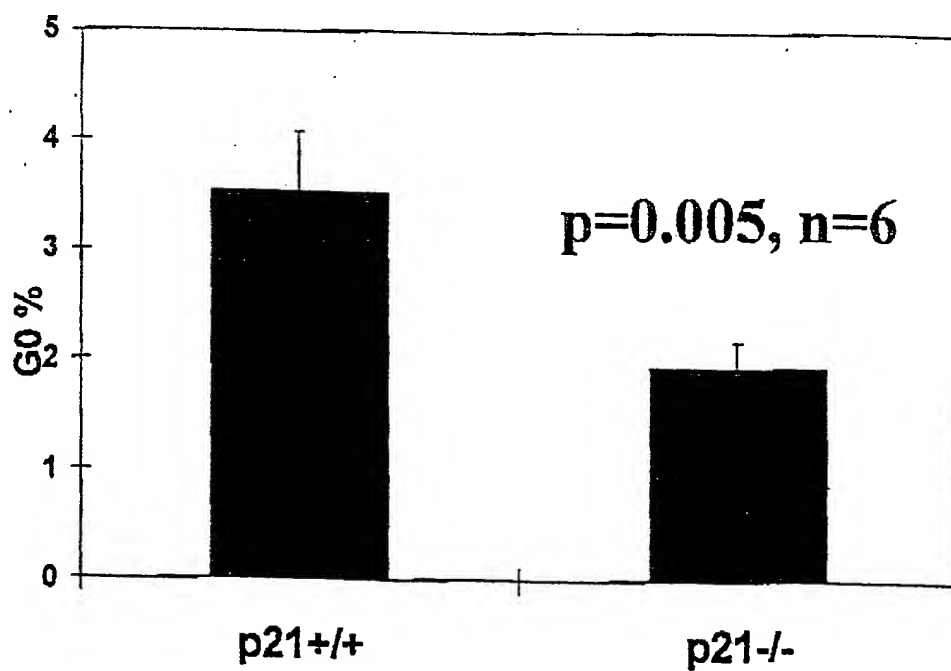
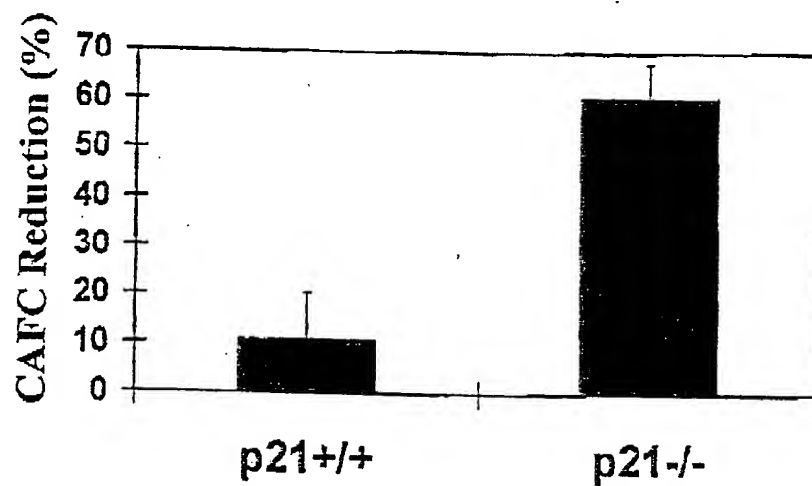
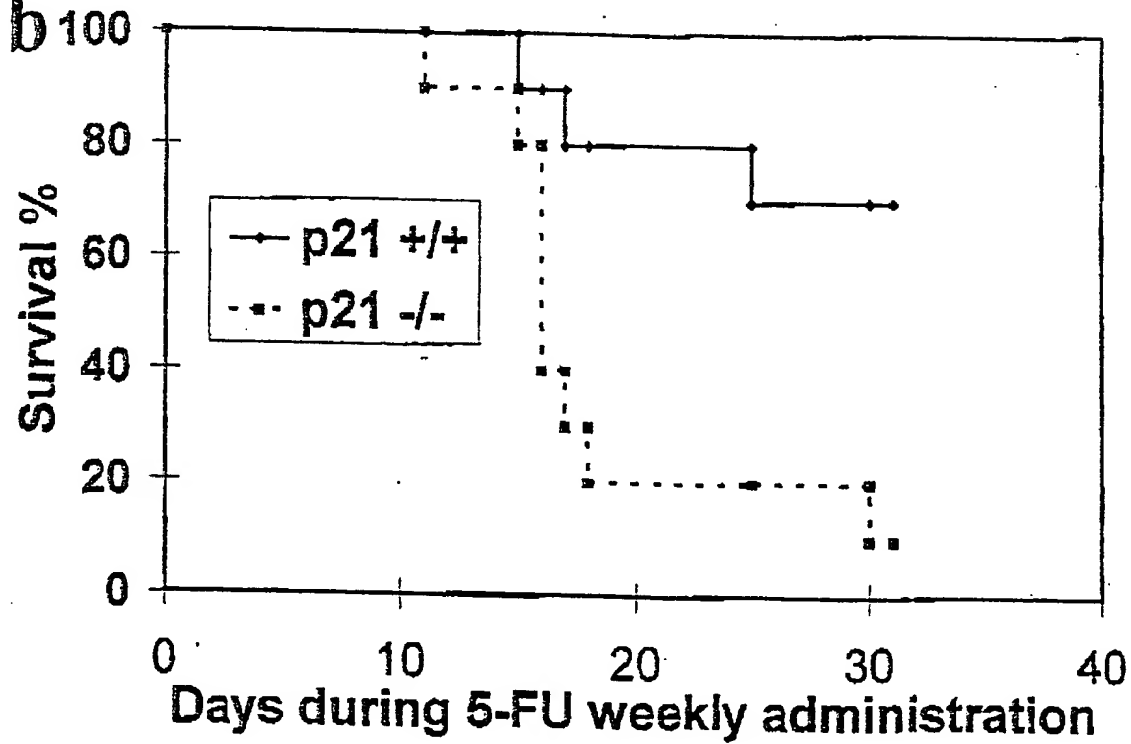
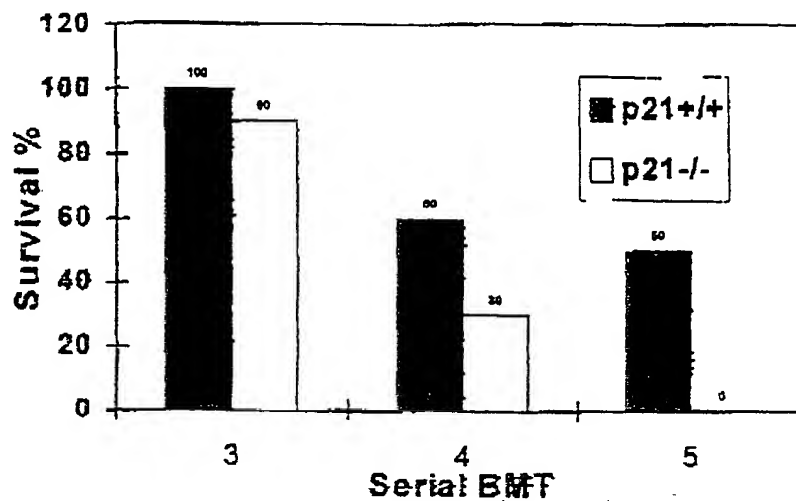


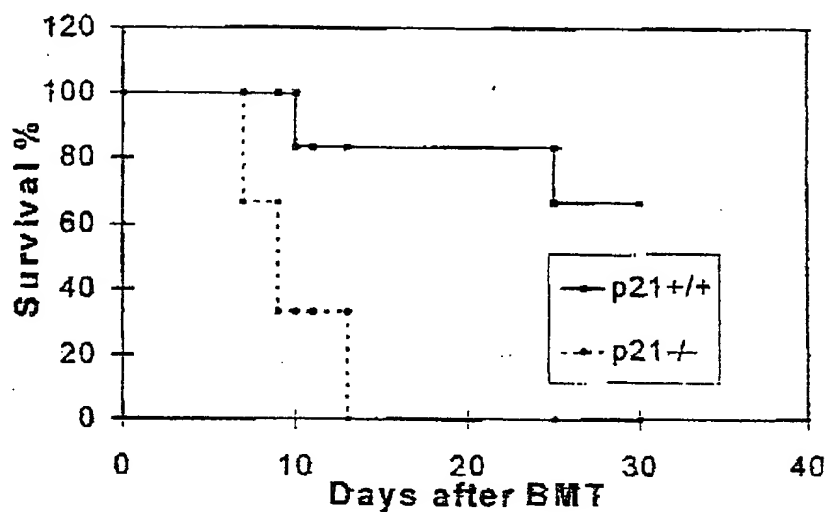
Fig. 1

a**b***Fig. 2*

a



b



c

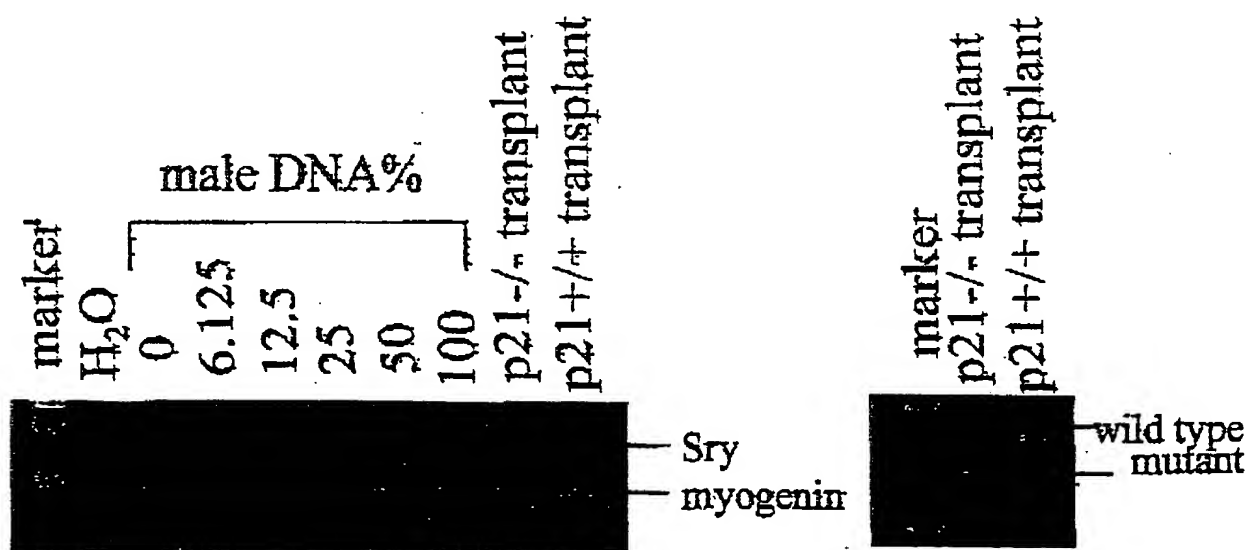
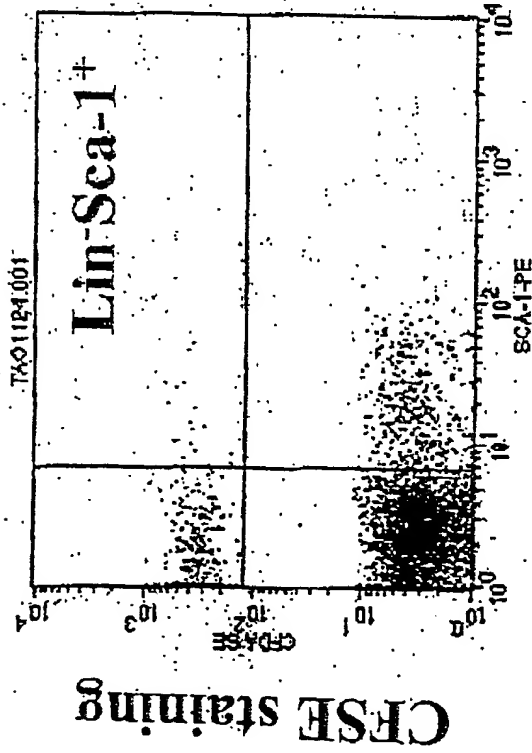


Fig. 3

p21+/+



p21-/-

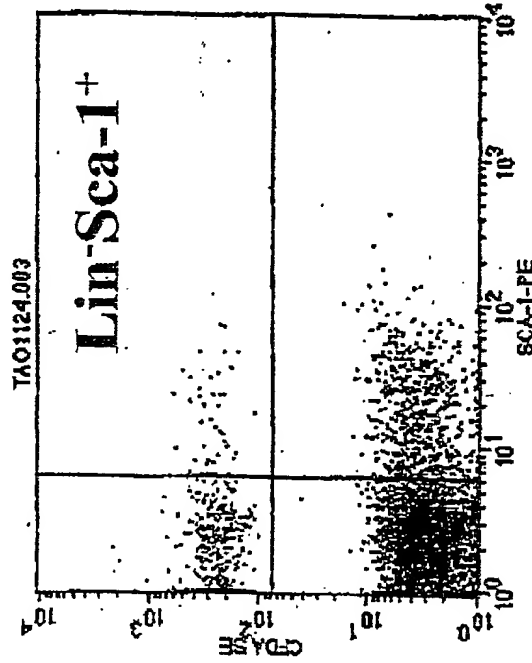


Fig. 4

Sca-1 staining

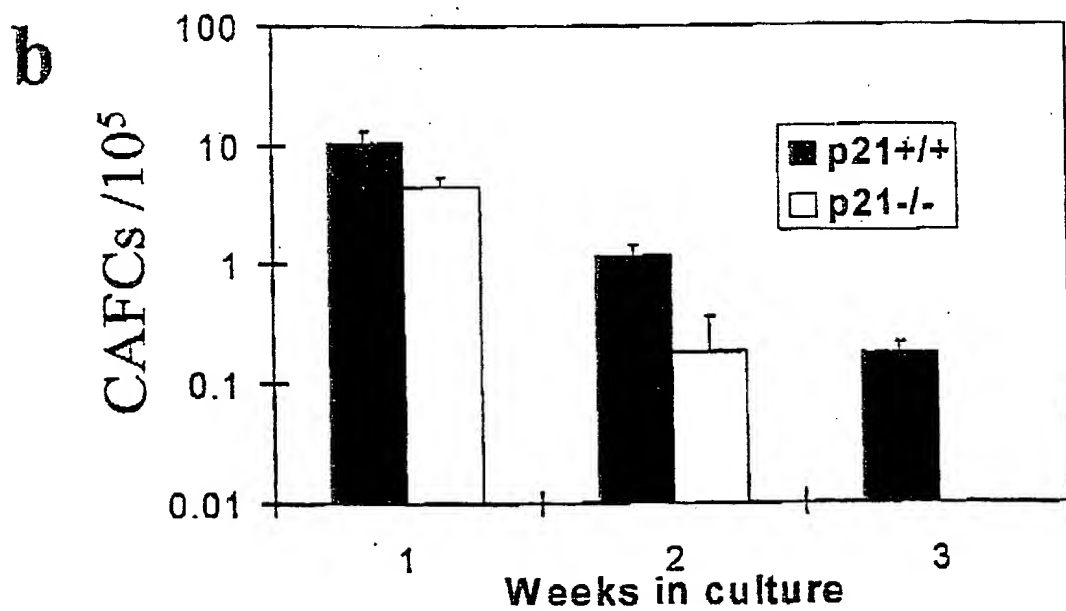
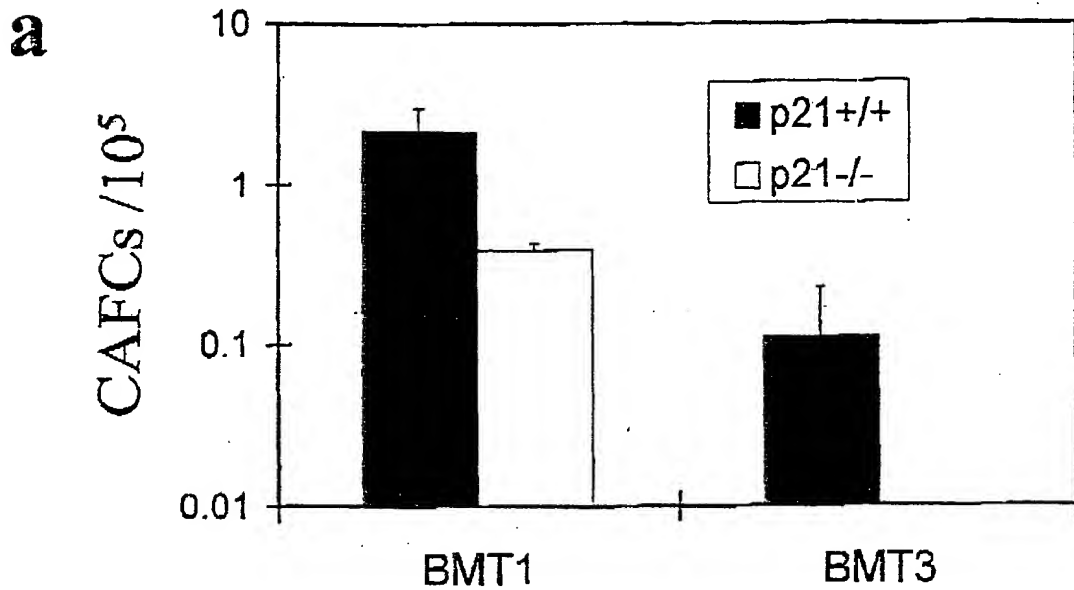
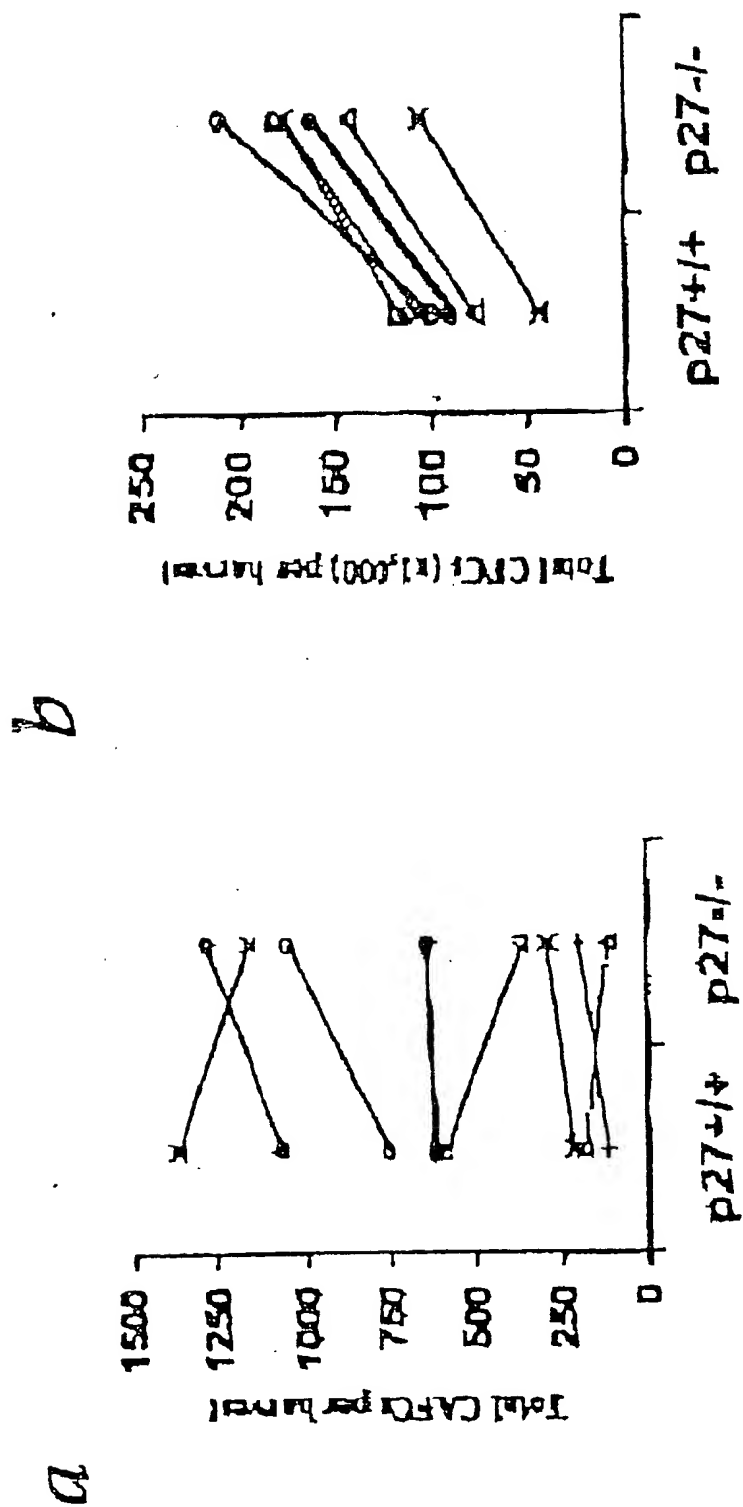


Fig. 5

Fig. 6

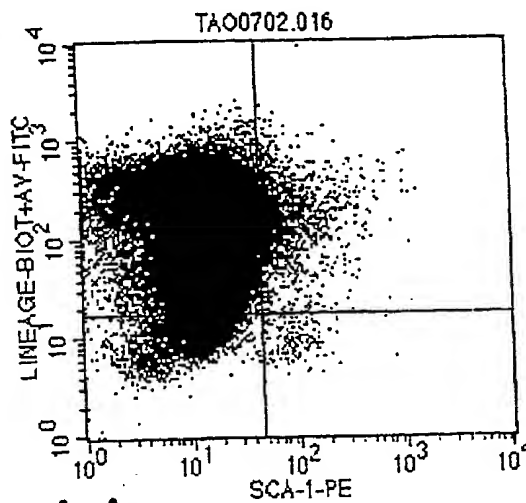
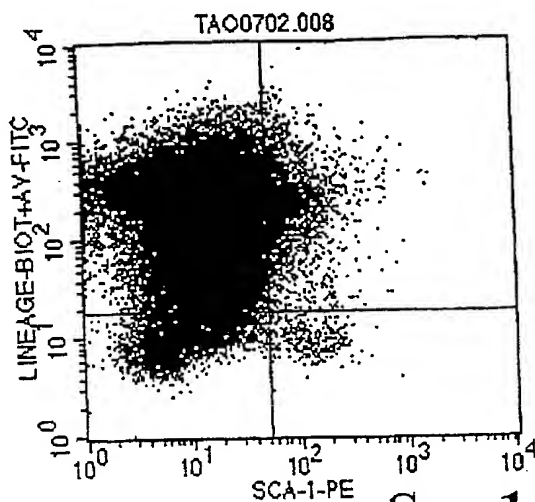


(a)

Lineage markers

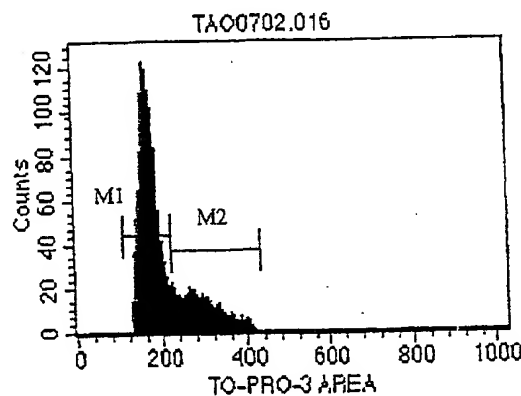
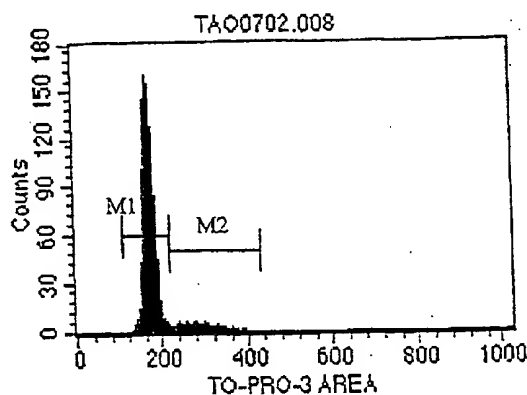
p27^{+/+}

p27^{-/-}

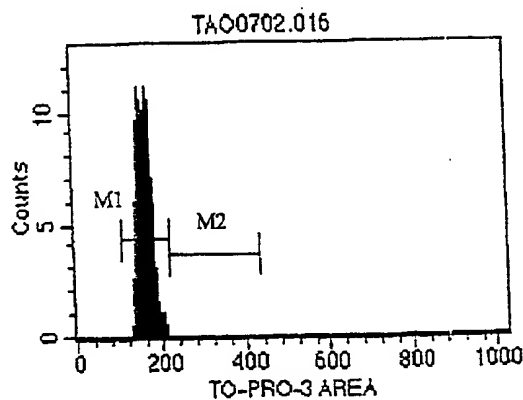
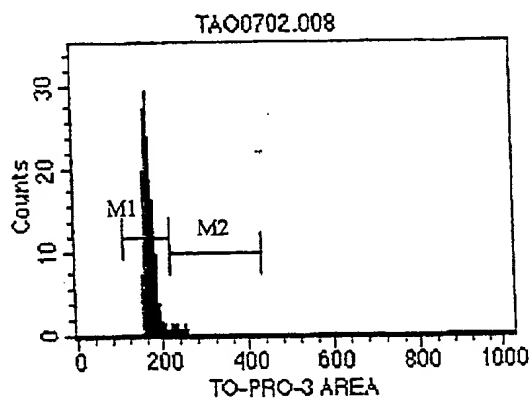


Sca-1 staining →

Sca-1+
Lin+



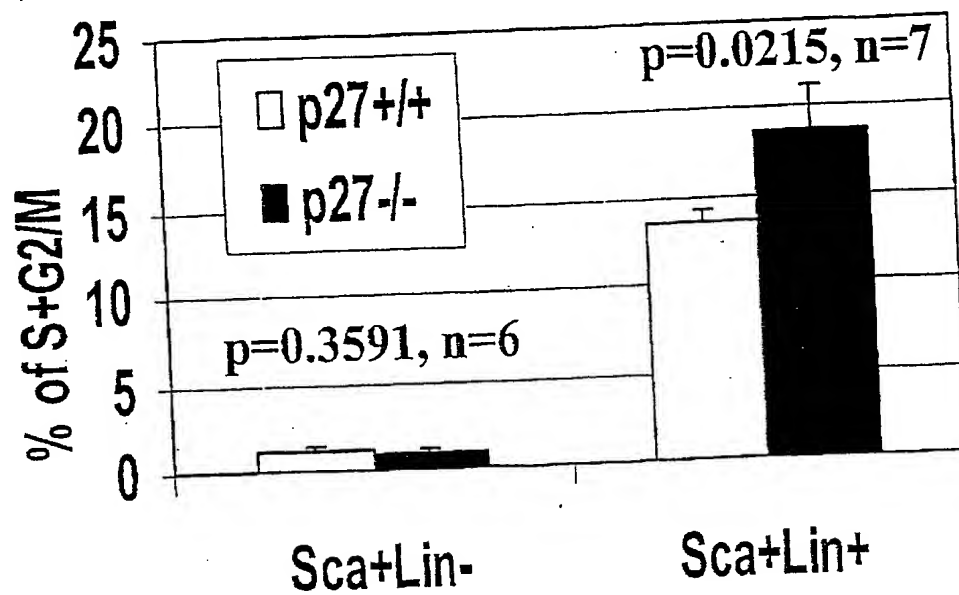
Sca-1+
Lin-



To-pro-3 staining →

Figure
7

(b)



(c)

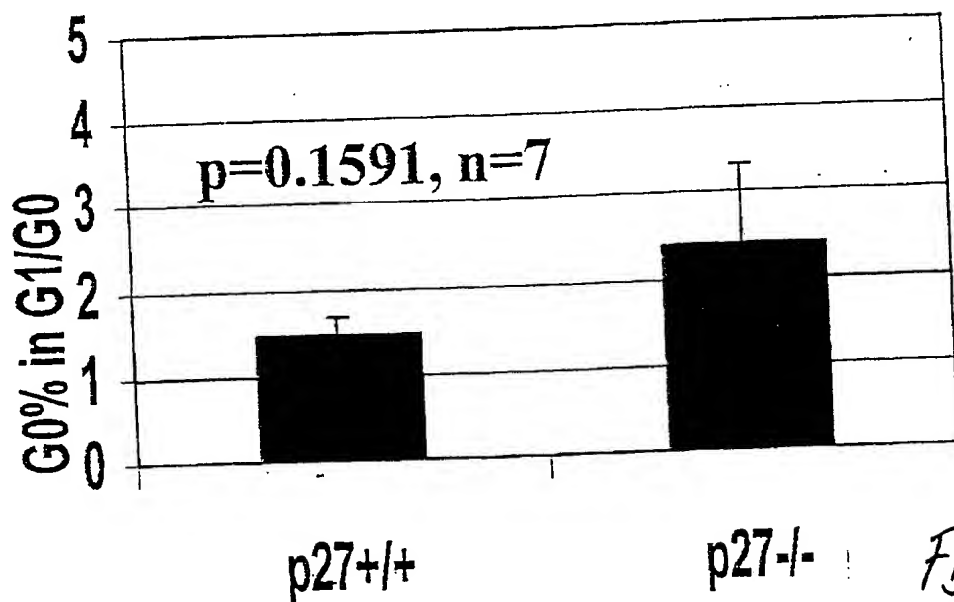
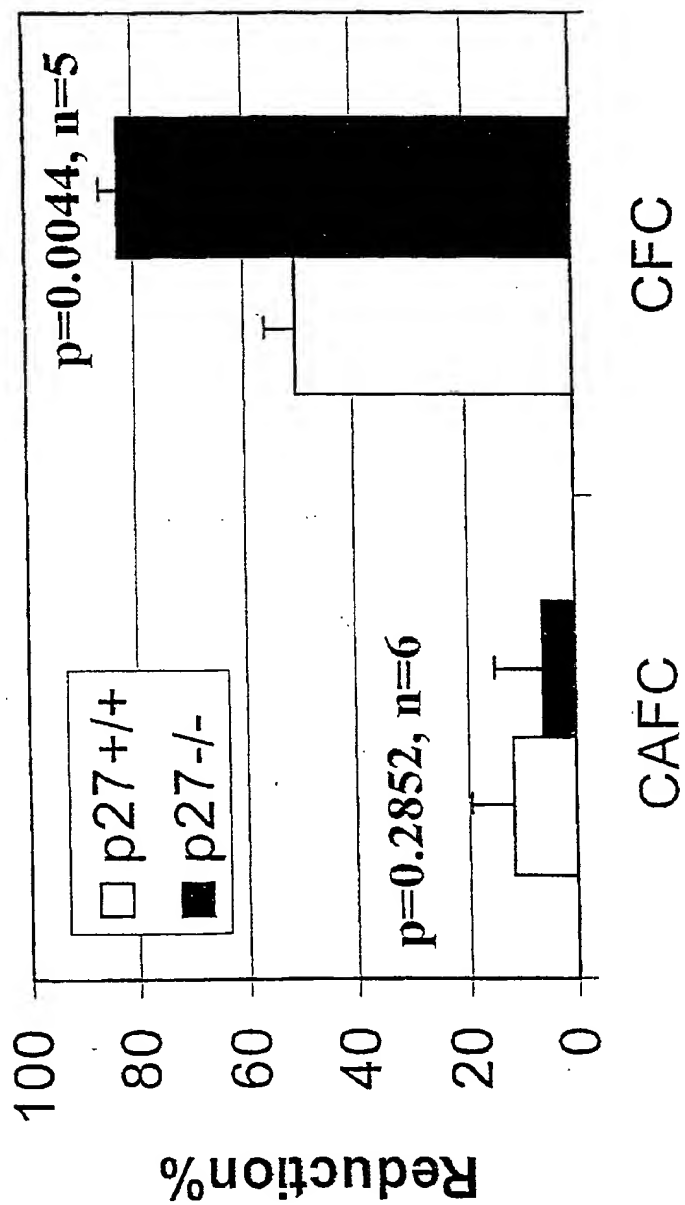
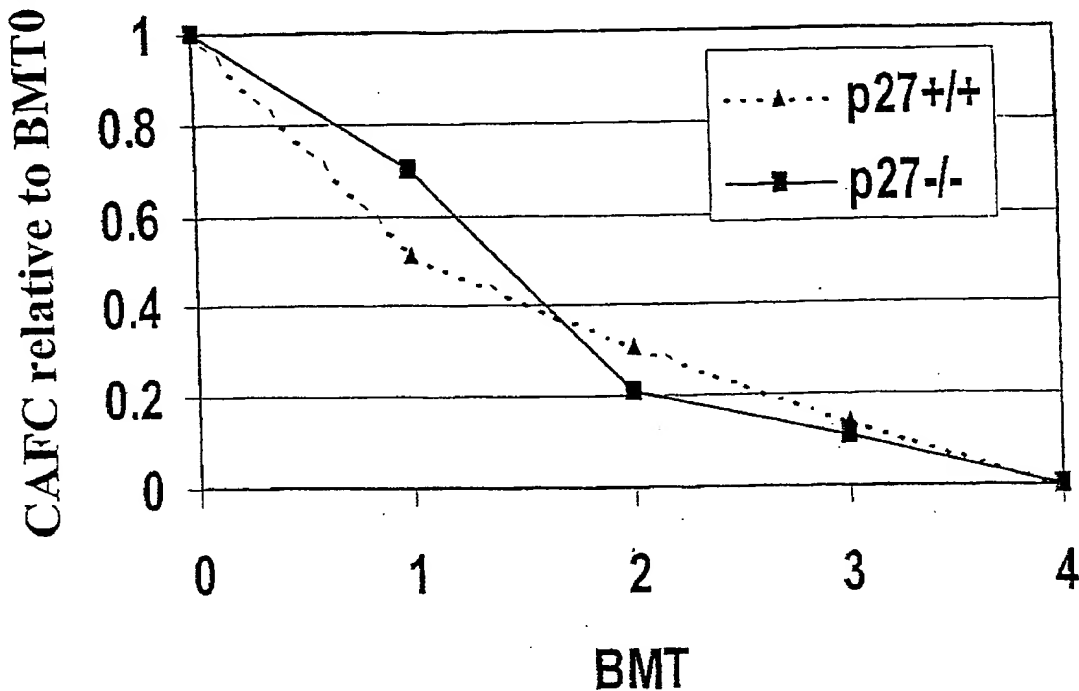


Fig. 7C
Fig. 7B

Figure 8



(a)



(b)

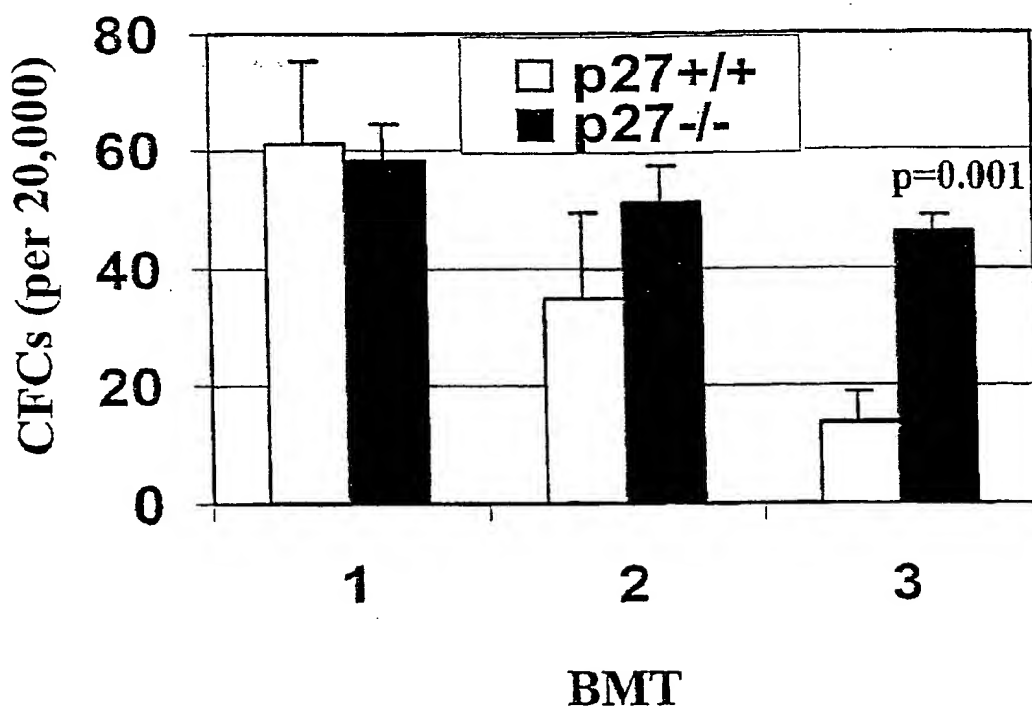


Figure 9

(c)

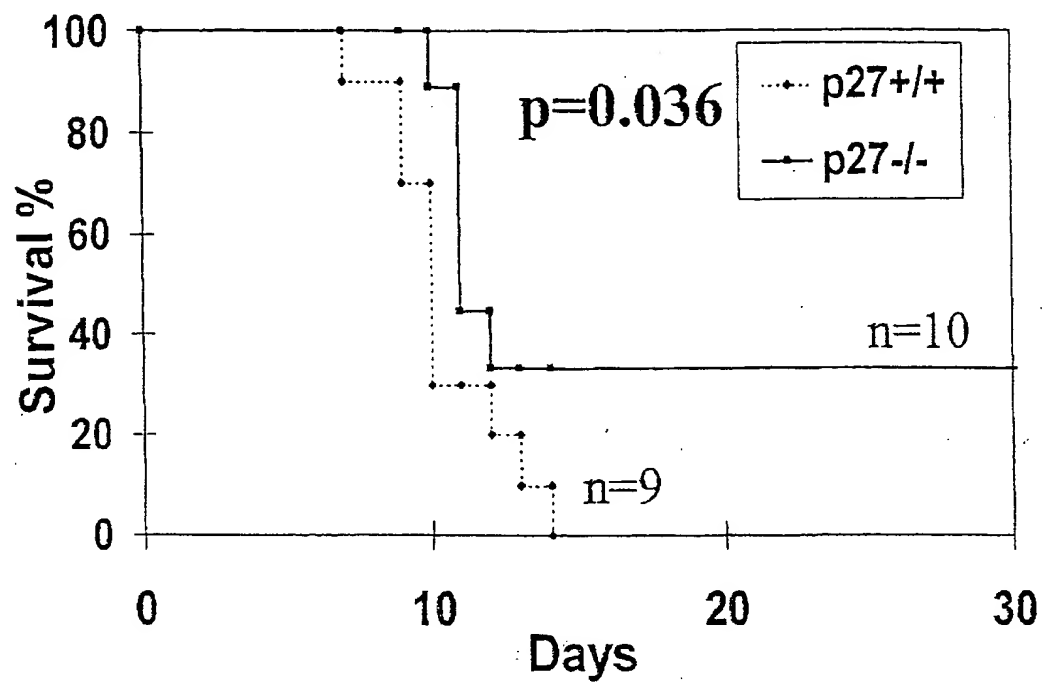
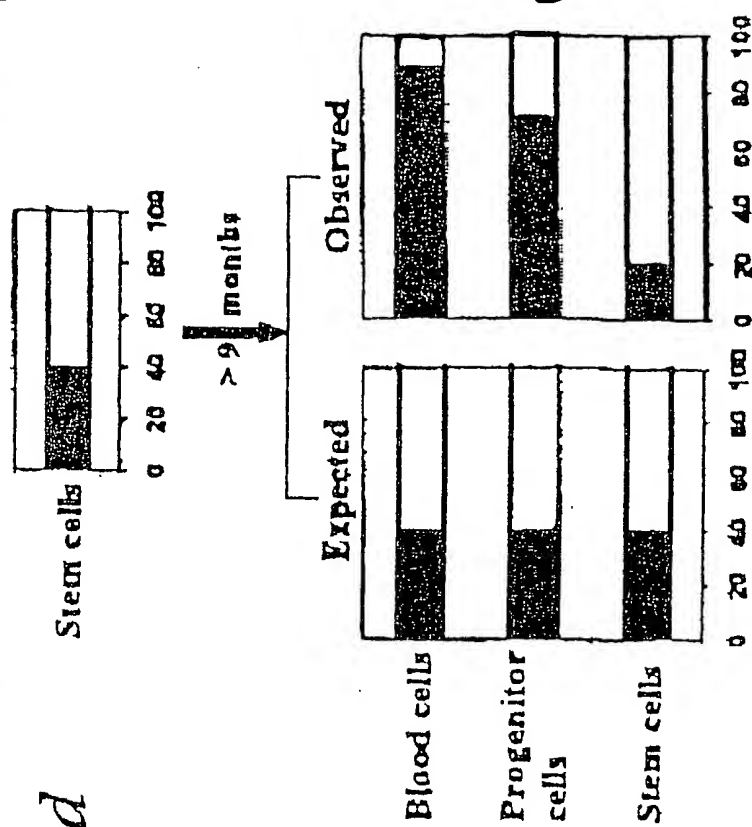
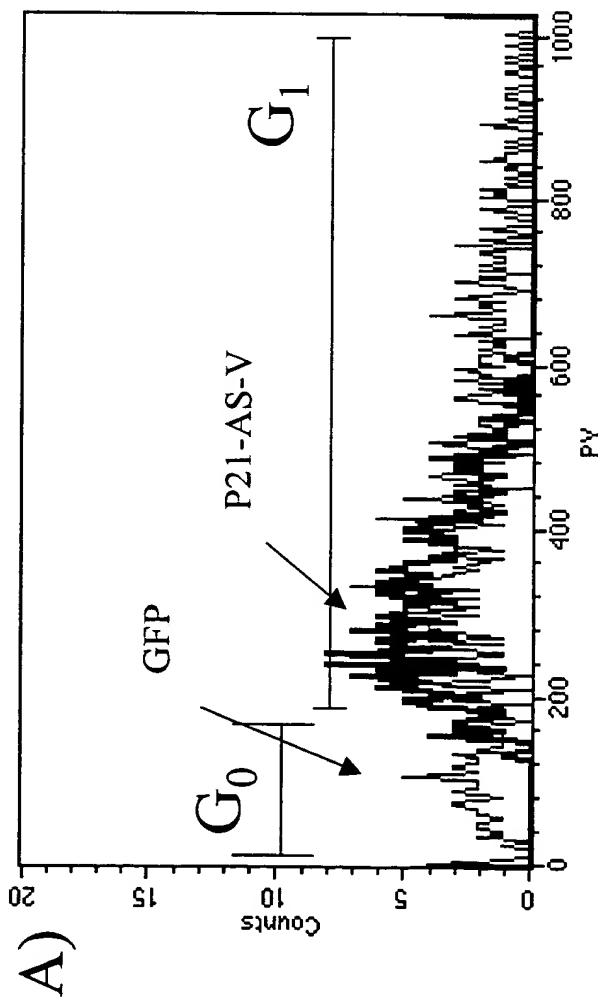


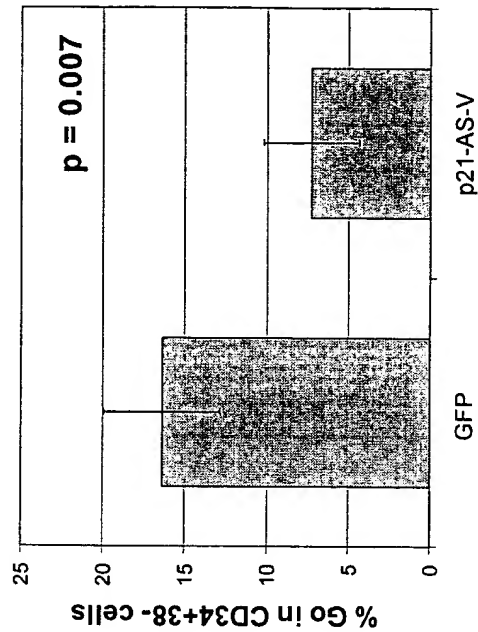
Figure 9C



p21-antisense reduces the G_0 fraction of transduced CD34+ cord blood cells



B) Percentage of G_0 cells in the CD34+38- subpopulation of transduced CD34+ cord blood cells



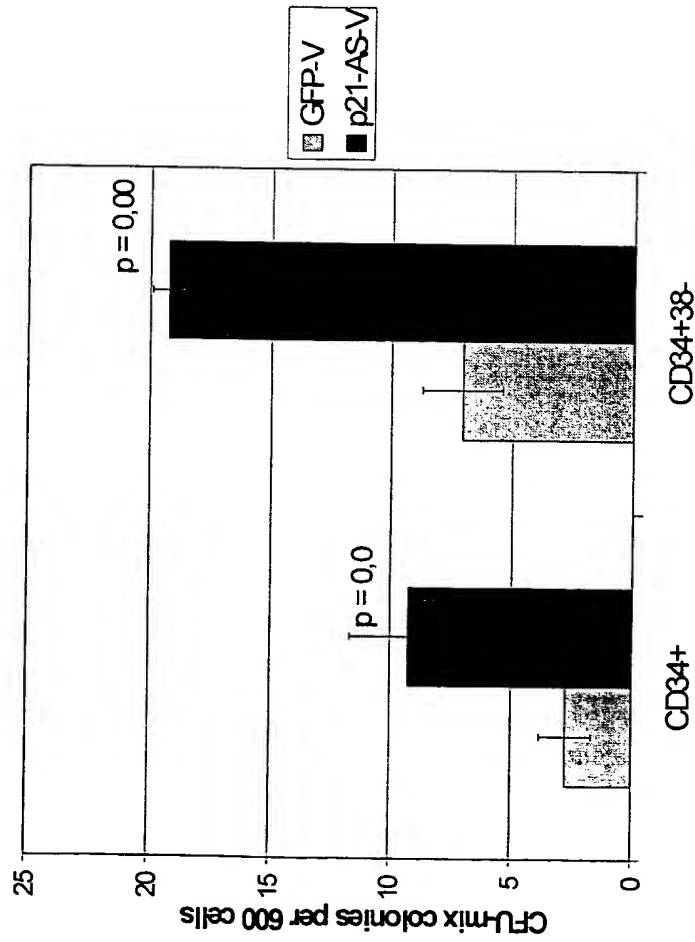
$N = 6$

Fig. 11

Fig. 12

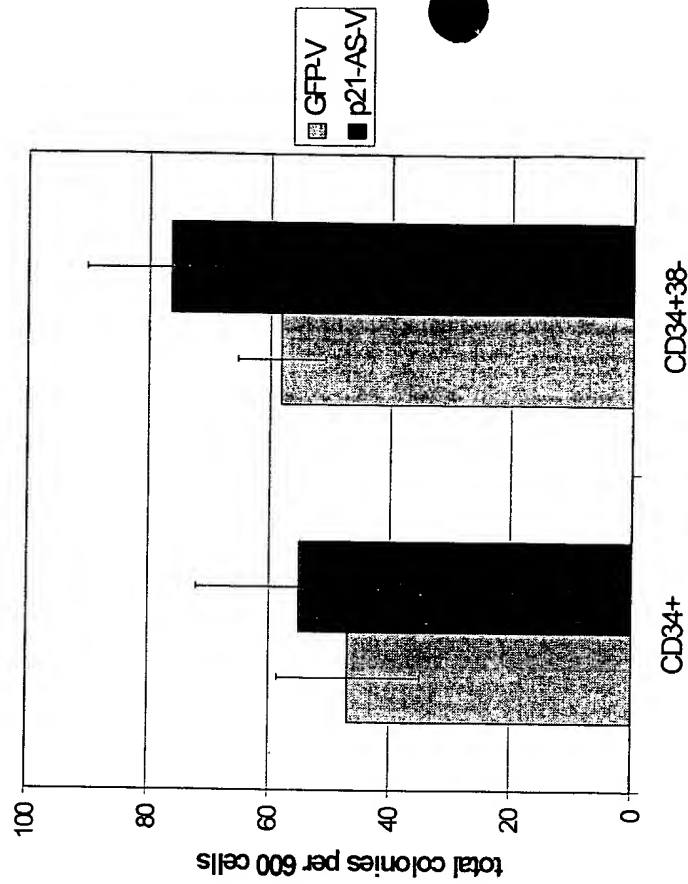
Antisense-p21 increases primitive CFU-mix without altering total CFC in transduced CD34+ and CD34+38- cord blood cells

A) CFU-mix colonies of transduced progenitor cells



B)

total colony number of transduced progenitor cells



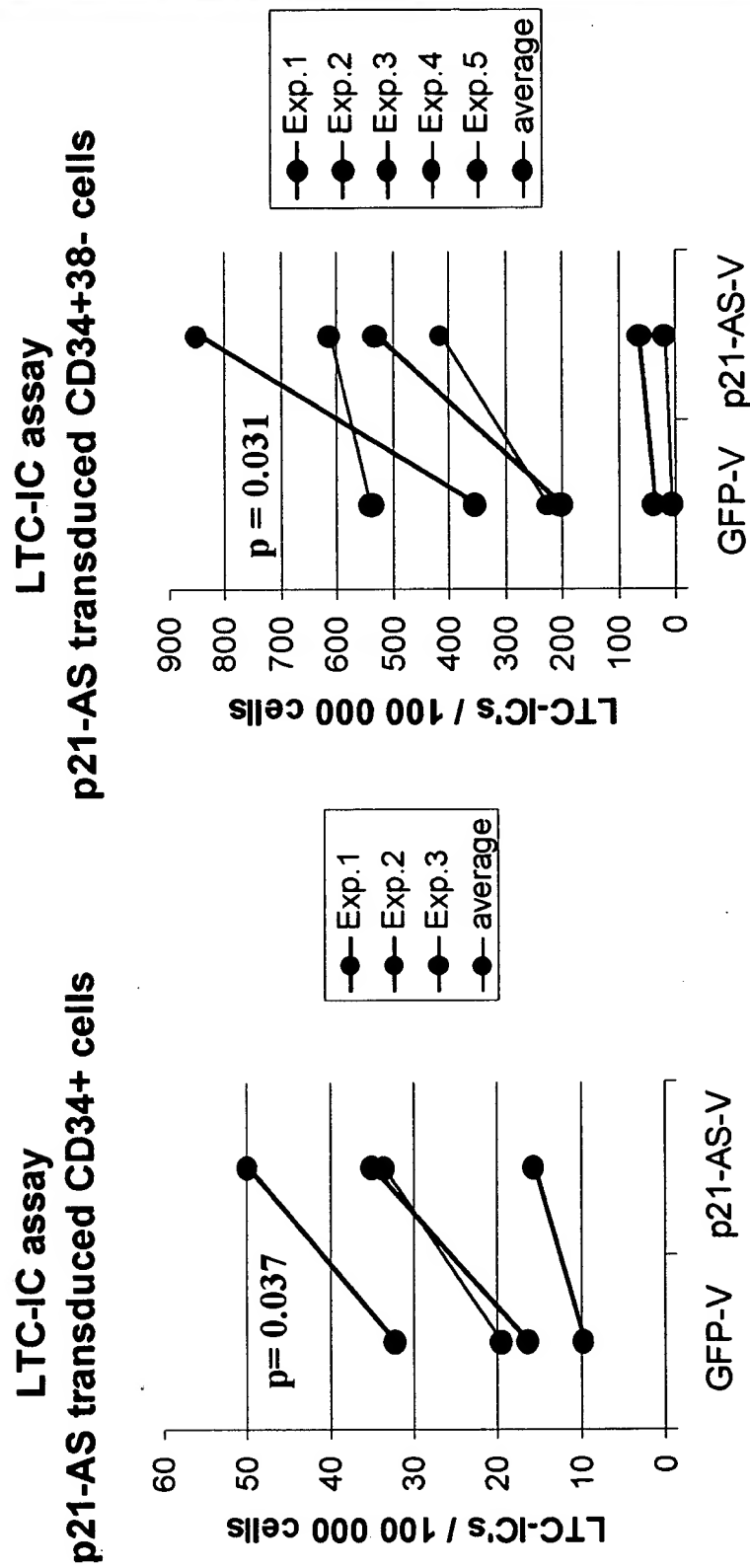


Fig. 14

p21^{Cip1} anti-sense enhances human CD34⁺ cell engraftment of NOD/SCID mice

